This image contains a diagram and text in German. The text is not legible due to the quality of the image. The diagram appears to be related to Object Constraint Language (OCL) constraints, possibly discussing set operations or boolean expressions. The content is not translatable as it is not clear or legible.
Notational Conventions for Expressions
iter

\[\text{expr} \rightarrow \text{Bool} \rightarrow \text{implies} \]

\[\text{forall} \rightarrow \text{C} \rightarrow \text{w} \rightarrow \text{Set} \]

\[\text{cop} \rightarrow \text{OCL Syntax 3/4: Iterate}

\text{Iterate Example}

\text{More Iterate Examples}
More Notational Conventions

For context self: \( T^{inv}: expr \) we may alternatively write ("abbreviate as") context \( T^{inv}: \) self expr.

Within the latter abbreviation, we may omit the "self" in expression expr, i.e. for context \( T^{inv}: \) self v, which is an abbreviation for context \( T^{inv}: v \) (self).

The Running Example

Recall: Overview

expr ::= \( w: \tau (w) \) | expr 1 = \( \tau \) expr 2 | expr 1 = \( \tau \times \tau \rightarrow \) Bool | oclIsUndefined expr 1 | { expr 1, . . . , expr n } | \( \tau \times \cdot \cdot \cdot \times \tau \rightarrow \) Set(\( \tau \)) | size expr 1 | allInstances C | \( \tau \) v (expr 1) | \( \tau \) C \rightarrow \( \tau \) (v) | r 1 (expr 1) | \( \tau \) C \rightarrow \( \tau \) D | r 2 (expr 1) | \( \tau \) C \rightarrow Set(\( \tau \) D) | true, false | Bool | not expr 1 | expr 1 {and, or, implies} expr 2 | . . . | OclUndefined \( \tau \) | \( \tau \) | expr 1 \rightarrow iterate (w 1: T 1; w 2: T 2 = expr 2 | expr 3)) | \( \tau \) 0 \rightarrow \tau T 2 | \( \tau \) | expr 1 --iterate (w 1: T 1; w 2: T 2 = expr 2 | expr 3)

References